

**Aerospace series - Paints and varnishes - Two
component cold curing polyurethane finish - Part 003:
Flexible and high fluid resistance for interior**

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NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 2434-003:2010 sisaldab Euroopa standardi EN 2434-003:2010 ingliskeelset teksti.</p> <p>Standard on kinnitatud Eesti Standardikeskuse 31.10.2010 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 01.09.2010.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 2434-003:2010 consists of the English text of the European standard EN 2434-003:2010.</p> <p>This standard is ratified with the order of Estonian Centre for Standardisation dated 31.10.2010 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.</p> <p>Date of Availability of the European standard text 01.09.2010.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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ICS 49.040

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ICS 49.040

English Version

Aerospace series - Paints and varnishes - Two component cold curing polyurethane finish - Part 003: Flexible and high fluid resistance for interior

Série aérospatiale - Peintures et vernis - Peinture de finition polyuréthane, à deux composants polymérisant à température ambiante - Partie 003: Flexibilité et haute résistance aux fluides pour application en intérieur

Luft- und Raumfahrt - Beschichtungsstoffe - Zweikomponenten-Polyurethan-Decklack, kalthärtend - Teil 003: Elastisch und medienbeständig für Innen

This European Standard was approved by CEN on 6 February 2010.

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Foreword

This document (EN 2434-003:2010) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of ASD, prior to its presentation to CEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 2011, and conflicting national standards shall be withdrawn at the latest by March 2011.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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Introduction

This European Standard is part of a series of EN non-metallic materials standards for aerospace applications.

The general organisation of this series is described in EN 4385.

This European Standard is a level 3 document as defined in EN 4385.

Definition for subcase numbering in Table 2 to Table 5, is given in EN 7000-9.

1 Scope

This European Standard specifies the requirements for a two component polyurethane finish, in a limited range of colours, to be applied over a primer for interior aerospace applications, offering flexibility and high resistance to fluid attack.

The properties specified in this European Standard are obtained on defined aluminium alloy test pieces prepared in accordance with EN 3837 and EN 23270 and painted with primer to EN 2435-003. The ability of the material to be used for a specific application (e.g. alternative substrate, alternative primer, specific drying conditions etc.) shall be determined by supplementary tests to confirm that the requirements of this standard are met.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2334, *Aerospace series — Chromic-sulphuric acid pickle of aluminium and aluminium alloys*

EN 2435-003, *Aerospace series — Paints and varnishes — Corrosion resistant chromated two component cold curing primer – Part 003: High corrosion and fluid resistance*

EN 2379, *Aerospace series — Fluids for assessment of non-metallic materials* ¹⁾

EN 3837, *Aerospace series — Paints and varnishes — Nature and method for surface preparation of test pieces in aluminium alloys* ¹⁾

EN 3840, *Aerospace series — Pieces paints and varnishes — Technical specification*

EN 4385, *Aerospace series — Non-metallic materials — General organisation of standardisation — Links between types of standards* ¹⁾

EN 7000-9, *Aerospace series — Non-metallic materials — Rules for the drafting and presentation of material standards — Part 9: Paints and varnishes* ¹⁾

EN ISO 1513, *Paints and varnishes — Examination and preparation of samples for testing (ISO 1513:1992)*

EN ISO 3696, *Water for analytical laboratory use — Specification and test methods (ISO 3696:1987)*

¹⁾ Published as ASD-STAN Prestandard at the date of publication of this standard

EN 23270, *Paints, varnishes and their raw materials — Temperatures and humidities for conditioning and testing (ISO 3270:1984)*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

Gloss finish

≥ 80 units measured at 60° according to EN 3840 test 27

4 Classification

Not applicable.

5 Batch release and qualification testing

5.1 Batch release testing

For batch acceptance the tests marked with an * in Table 1 to Table 5 shall be performed.

5.2 Qualification tests

For product qualification, all tests mentioned in this standard, in the Table 1 to Table 5, shall be performed.